

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A rotary deflector comprising a mass member detachably fixed to a non-rotary section of a driving motor for rotating a polygon mirror, wherein a periphery of the mass member is larger than [[that]] a periphery of the non-rotary section of the driving motor and is larger than a periphery of the polygon mirror.

Claim 2 (original): The rotary deflector according to Claim 1, wherein the non-rotary section is a stationary shaft located at the center of rotation of the driving motor and the mass member is attached to the stationary shaft.

Claim 3 (original): The rotary deflector according to Claim 2, wherein the center of gravity of the mass member is located almost at the center of the stationary shaft.

Claim 4 (original): The rotary deflector according to Claim 2, wherein the mass member is a plate-like member and is symmetrical about the center of gravity.

Claim 5 (withdrawn): The rotary deflector according to Claim 2, wherein the mass member of a size capable of reducing vibration within the range of the number of rotation of the driving motor is attached.

Claim 6 (withdrawn): The rotary deflector according to Claim 5, wherein the weight of the mass member is 5 g or more.

Claim 7 (withdrawn): The rotary deflector according to Claim 2, further comprising:
an engaging section formed at the upper part of the stationary shaft;
an engaged section which is formed at the center of gravity of the mass member and which engages with the engaging section; and
a fixing unit that fixes the engaged section and the engaging section.

Claim 8 (withdrawn): The rotary deflector according to Claim 1, wherein the mass member is formed integrally with the stationary shaft.

Claim 9 (currently amended): An optical scanning unit comprising:
a rotary deflector, wherein a mass member is detachably fixed to a non-rotary section of a driving motor for rotating a polygon mirror, a periphery of the mass member is larger than [[that]] a periphery of the non-rotary section of the driving motor and is larger than a periphery of the polygon mirror.

Claim 10 (withdrawn): The optical scanning unit according to Claim 9, further comprising:

a stopper that blocks the mass member from rotating a predetermined number of rotation or more is provided within a housing for storing the rotary deflector.

Claim 11 (withdrawn): The optical scanning unit according to Claim 10, further comprising:

an elastic member which contacts with the mass member and blocks it from rotating within the housing for storing the rotary deflector.

Claim 12 (currently amended): An image forming apparatus comprising:

an optical scanning unit comprising a rotary deflector in which a mass member is detachably fixed to a non-rotary section of a driving motor for rotating a polygon mirror, a periphery of the mass member is larger than ~~[[that]]~~ a periphery of the non-rotary section of the driving motor and is larger than a periphery of the polygon mirror.